

1/9/3

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Alkylene oxide derivs prodn - having little odour and used as base
materials for medicaments and cosmetics

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 73026391	B						197333 B

Priority Applications (No Type Date): JP 6781310 A 19671218

Abstract (Basic): JP 73026391 B

Process comprises reacting an active H-contg. cpd. with an alkylene oxide in the presence of an alkali catalyst, adding >0.3 wt.% of alumina gel to the unneutralised reaction prod., and stirring the mixt. at between room temp. and 130 degrees C prior to filtration. In an example, 76 g. of propylene glycol and 5.5 g. powdered KOH were charged into an autoclave. After the air was replaced by N₂, 2100 g. of propylene oxide were fed to polymerise in the autoclave over a period of 10 hrs. at 110 degrees C and at 4 kg./cm². After introduction of propylene oxide was completed, the reaction prod. was aged at 120 degrees C for 2 hrs. to obtain 2165 g. of crude polyether contg. 0.25 wt.% of KOH catalyst. Commercial grade alumina gel, 1.5 wt.% was added to 1000 g. of the crude polyether obtd. with stirring and held at 80 degrees C for 1 hr. in a stream of N₂. The reaction mixture was filtered and subjected to stripping at 120 degrees C and at <50 mmHg for 2 hrs. to remove water and low boiling prodts. Thus a neutral purified polyether having a mol.wt. of 2000 which was transparent and free from odour was obtd.

Title Terms: ALKYLENE; OXIDE; DERIVATIVE; PRODUCE; ODOUR; BASE; MATERIAL;
MEDICAMENT; COSMETIC

Derwent Class: A25; B04; D21

International Patent Class (Additional): C08G-023/08